



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/415,679	10/08/1999	XI CHEN	15962-0012	5155

7590 10/03/2005
SQUIRE, SANDERS & DEMPSEY
14TH
8000 TOWERS CRESCENT DRIVE
TYSONS CORNER, VA 22182-2700

EXAMINER

CHANG, EDITH M

ART UNIT	PAPER NUMBER
----------	--------------

2637

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

8/2

Office Action Summary	Application No. 09/415,679	Applicant(s) CHEN, XI	
	Examiner Edith M. Chang	Art Unit 2637	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 22 July 2005.
- 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 2-23 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 December 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

1. The drawings are objected to because FIG.4 needs the arrows to be added at the end of lines connecting elements to show the signal flows.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claims 2-23 are objected to because of the following informalities:

Art Unit: 2637

Claim 2, line 5: "another" should be "another pulse" as the antecedent basis of "the another pulse" recited in line 10 of claim 2 and to consistent with "another pulse" recited in line 5 claim 10.

Claims 6 & 14, line 2: "auto-negotiation" should be "an auto-negotiation".

Claim 7, line 4: "powered-down" should be "the powered-down".

Claims 8, 15 & 19, line 2: "activity" should be "an activity".

Claim 9, line 2: "in a power-down" should be "in the power-down".

Claim 10, line 6: "receiving data" should be "receiving the data signals".

Claim 17, line 4: "said pulse" should be "said minimally powered link pulse"; line 5: "form pulse" should be "from another pulse"; line 7: "receiving data" should be "receiving the industry-standard data signals"; line 9: "signal activity" should be "a signal activity"; line 11: "said transmitter subcircuit and said receiver subcircuit each have its" should be "each of said transmitter subcircuit and said receiver subcircuit has its".

Claim 18, line 2: "said pulse conforms to the pulse" should be said "minimally powered link pulse conforms to the another pulse".

Claim 21, line 7: "receiving data" should be "receiving the data signals"; lines 8-9: "said transmitter subcircuit and said receiver subcircuit each have its" should be "each of said transmitter subcircuit and said receiver subcircuit has its"; line 11: "subcircuit media" should be "subcircuit media" should be "subcircuit means".

Claim 22, lines 7-8: "receiving data," should be "receiving the data signals"; lines 10-11: "said transmitter subcircuit and said receiver subcircuit each have its" should be "each of said transmitter subcircuit and said receiver subcircuit has its".

Claim 23, line 5: "said pulse" should be "said minimally powered link pulse"; lines 7-8: "receiving data" should be "receiving the data signals"; line 10: "signal activity" should be "a signal activity"; lines 11-12: "said transmitter subcircuit and said receiver subcircuit each have its" should be "each of said transmitter subcircuit and said receiver subcircuit has its".

Claims 3-5, 11-13, 16 and 20 are dependent on the objected claims 2, 10 and 17.

Appropriate correction is required.

Allowable Subject Matter

3. Claims 2-23 would be allowable if rewritten or amended to overcome the objection(s) forth in this Office action.
4. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach or suggest, alone or in a combination, among other things, at least a transceiver circuit as a whole, the combination of elements and features, which includes the a transmitter subcircuit transmitting a pulse to indicate a status during a powered-down mode and using a first clock management mode; and during a power-on mode transmitting another pulse differ from the pulse to indicate the status during the powered-down mode to indicate a power-on status and using a second clock management mode as recited in the claims.

Conclusion

Art Unit: 2637

5. This application is in condition for allowance except for the following formal matters: as listed in the claim objections of this Office action.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

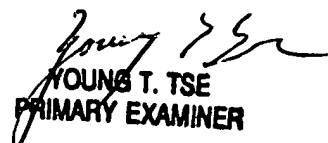
A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edith M. Chang whose telephone number is 571-272-3041. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay K. Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edith Chang
September 28, 2005


YOUNG T. TSE
PRIMARY EXAMINER